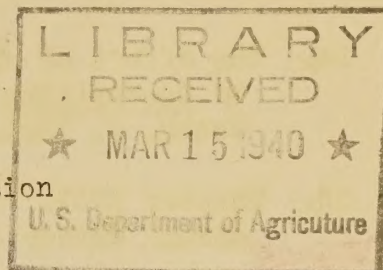


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Bureau of Agricultural Chemistry and Engineering
U. S. Department of Agriculture.

PUBLICATIONS ON FERMENTATION

Industrial Farm Products Research Division



1. The production of gluconic acid by the *Penicillium Luteum-Purpurogenum* group. I. O. E. May, H. T. Herrick, Charles Thom and Margaret B. Church. *J. Biol. Chem.* 75, 2, pp. 417-422 (1927).
2. The production of gluconic acid by the *Penicillium Luteum-Purpurogenum* group. II. Some optimal conditions for acid formation. H. T. Herrick and O. E. May. *J. Biol. Chem.* 77, 1, pp. 185-195 (1928).
3. Molds pressed into service in utilizing some farm products. H. T. Herrick and O. E. May. *Yearbook of Agriculture*, p. 464 (1928).
4. Molds and chemical manufacture. H. T. Herrick and O. E. May. *Ind. Eng. Chem.* 21, 7, pp. 618-621 (1929).
5. Some physical constants of d-gluconic acid and several of its salts. O. E. May, S. H. Weisberg and H. T. Herrick. *J. Wash. Acad. Sci.* 19, 20, pp. 443-447 (1929).
6. Semi-plant scale production of gluconic acid by mold fermentation. O. E. May, H. T. Herrick, A. J. Moyer, and R. Hollbach. *Ind. Eng. Chem.* 21, 12, pp. 1198-1203 (1929).
7. Mold fermentations. H. T. Herrick. *The News-Letter, Princeton Eng. Assoc.* 10, 3, pp. 67-70 (1930).
8. Fermentation in food manufacture. H. T. Herrick. *Food Industries*. Nov. 1930, p. 488.
9. Symposium on industrial fermentations. Introduction by H. T. Herrick. *Ind. Eng. Chem.* 22, 11, p. 1148 (1930).
10. Some minor industrial fermentations. O. E. May and H. T. Herrick. *Ind. Eng. Chem.* 22, 11, pp. 1172-1176 (1930).
11. The production of kojic acid by *Aspergillus flavus*. O. E. May, A. J. Moyer, P. A. Wells, and H. T. Herrick. *J. Amer. Chem. Soc.* 53, 2, pp. 774-782 (1931).
12. Some industrial fermentations. H. T. Herrick. *Chem. Bull.* 18, 2, pp. 35-39 (1931).
13. Determining chemical value of molds. H. T. Herrick and O. E. May. *U. S. Daily*, p. 4, May 19, 1931.

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14. The effect of organic stimulants upon the production of kojic acid by Aspergillus flavus. O. E. May, G. E. Ward, and H. T. Herrick. Zentr. f. Bakt., Parasit. u. Infekt., II Abt. 86, pp. 129-134 (1932).
15. Chapter XVII. "Fermentation." O. E. May and H. T. Herrick. Annual Survey of American Chemistry, 7, (1932).
16. Production of organic acids from carbohydrates by fermentation. A digest of the literature. U. S. D. A. Circular No. 216. 30 pages. May, 1932.
17. Gluconic acid. Production of submerged mold growths under increased air pressure. O. E. May, H. T. Herrick, A. J. Moyer, and P. A. Wells. Ind. Eng. Chem. 26, 5, pp. 575-578 (1934).
18. The chemical composition of the fat produced by Penicillium javanicum van Beijma. G. E. Ward and G. S. Jamieson. J. Amer. Chem. Soc. 56, 4, pp. 973-975 (1934).
19. The production of fat by Penicillium javanicum van Beijma. L. B. Lockwood, G. E. Ward, O. E. May, H. T. Herrick, and Hugh T. O'Neill. Zentr. f. Bakt., Parasit. u. Infekt. II Abt. 90, pp. 411-425 (1934).
20. Some practical and theoretical aspects of mold metabolism. O. E. May and H. T. Herrick. J. Bact. 28, 2, pp. 145-151 (1934).
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22. Production of fat from glucose by molds. Cultivation of Penicillium javanicum van Beijma in large-scale laboratory apparatus. G. E. Ward, L. B. Lockwood, O. E. May, and H. T. Herrick. Ind. Eng. Chem. 27, 3, pp. 318-322 (1935).
23. Fermentation as a factor in producing organic acids for chemical industry. H. T. Herrick and O. E. May. Chem. & Met. Eng. 42, 3, pp. 141-142 (1935).
24. Apparatus for the application of submerged mold fermentations under pressure. H. T. Herrick, R. Hellbach, and O. E. May. Ind. Eng. Chem. 27, 6, pp. 681-683 (1935).
25. A mucor found in fowl. N. Porges, J. F. Muller, and L. B. Lockwood. Mycologia, 27, 3, p. 330 (1935).
26. Fungi from laboratory reagents. L. B. Lockwood. Mycologia 28, 1, pp. 10-12 (1936).
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28. The chemistry of the citric acid fermentation. I. The carbon balance. P. A. Wells, A. J. Moyer, and O. E. May. J. Amer. Chem. Soc. 58, 4, pp. 555-558 (1936).
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31. The physiology of *Rhizopus Oryzae*. L. B. Lockwood, G. E. Ward, and O. E. May. J. Agric. Res., 53, 11, pp. 849-857 (1936).
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33. Translating mold fermentation research to pilot plant operations. P. A. Wells, D. F. J. Lynch, H. T. Herrick and O. E. May. Chem. Met. Eng., 44, 4, pp. 188-190 (1937).
34. Gluconic acid production. Effect of pressure, air flow, and agitation on gluconic acid production by submerged mold growths. P. A. Wells, A. J. Moyer, J. J. Stubbs, H. T. Herrick, and O. E. May. Ind. Eng. Chem. 29, 6, pp. 653-656 (1937).
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36. Sorbose from sorbitol. Production by submerged growths of *Acetobacter suboxydans*. P. A. Wells, J. J. Stubbs, L. B. Lockwood, and E. T. Roe. Ind. Eng. Chem. 29, 12, pp. 1385-1388 (1937).
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38. The citric acid industry. P. A. Wells and H. T. Herrick. Ind. Eng. Chem. 30, 3, pp. 255-262 (1938).
39. Biochemical studies of some fusaria. L. B. Lockwood, J. J. Stubbs, and C. E. Senseman. Zentr.f. Bakt., Parasit. u. Infekt. II Abt. 98, pp. 167-171 (1938).
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42. Fermentation processes. P. A. Wells and G. E. Ward. Ind. Eng. Chem. 31, 2, pp. 172-177 (1939).
43. Sorbose from sorbitol. Semiplant-scale production by Acetobacter suboxydans. P. A. Wells, L. B. Lockwood, J. J. Stubbs, E. T. Roe, N. Porges, and E. A. Gastrock. Ind. Eng. Chem. 31, 12, pp. 1518-1521 (1939).
44. Gluconic acid production. Repeated use of submerged Aspergillus niger for semicontinuous production. N. Porges, T. F. Clark, and E. A. Gastrock. Ind. Eng. Chem. 32, 1, pp. 107-111 (1940).

Bureau of Agricultural Chemistry and Engineering
U. S. Department of Agriculture.

PATENTS ON FERMENTATION

Industrial Farm Products Research Division.

Number	Date of issue	Subject	Inventor
1,726,067	Aug. 27 1929	Process for the manufacture of gluconic acid.	H. T. Herrick O. E. May
2,006,086	June 25 1935	Method of carrying out oxidative fermentations by molds or fungi.	O. E. May H. T. Herrick A. J. Moyer P. A. Wells
2,098,962	Nov. 16 1937	Method for carrying out aeration in biochemical processes.	Rudolph Hellbach
2,121,533	June 21 1938	Method for carrying out certain oxidative fermentation processes by bacteria.	P. A. Wells L. B. Lockwood J. J. Stubbs
2,132,712	Oct. 11 1938	Fermentation process for the manufacture of dextro-lactic acid.	G. E. Ward L. B. Lockwood O. E. May

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